

Laura S. Olton  
*General Counsel*

July 12, 2005

**VIA HAND DELIVERY & ELECTRONIC MAIL**

Luly E. Massaro, Commission Clerk  
Rhode Island Public Utilities Commission  
89 Jefferson Boulevard  
Warwick, RI 02888

**RE: Docket 3628 – The Narragansett Electric Company’s Service Quality Plan  
Feeder Ranking Report – 2nd Quarter 2005**

Dear Ms. Massaro:

In accordance with the Additional Reporting Criteria, Item 1, of The Narragansett Electric Company’s (“Company”) Service Quality Plan effective January 1, 2005, enclosed please find ten (10) copies of the Company’s Feeder Ranking Report for the second quarter of 2005.

Thank you for your attention to this filing. Please feel free to contact me at (401) 784-7667 if you have any questions.

Very truly yours,

*Laura S. Olton*

Laura S. Olton

Enclosures

cc: Docket 3628 Service List  
Paul Roberti, Esq.  
Steve Scialabba, Division

### Certificate of Service

I hereby certify that a copy of the cover letter and / or any materials accompanying this certificate has been mailed or hand-delivered to the parties listed below.



\_\_\_\_\_  
Joanne M. Scanlon

July 12, 2005  
Date

**Narragansett Electric Company – Service Quality Plan**  
**Docket 3628 - Service List as of 10/27/04**

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cc: Steve Scialabba, RI Division

**The Narragansett Electric Company**

Feeder Rankings  
2nd Quarter  
April 2005 - June 2005

Rank	Feeder	Freq.	Cities/Towns Served	No. of Customers	No of Events	Average Duration	Total Customer Mins.	Causes	Corrective Actions
1	2J3	8.20	PROVIDENCE	269	2	832.24	223872	Planned Conversion to 12Kv Operation	Customers were Notified of Date and Expected Duration
								Planned Conversion to 12Kv Operation	Customers were Notified of Date and Expected Duration
2	126W40	3.12	LINCOLN	484	4	244.41	118295	Underground Cable Splice Failure	Equipment Was Isolated and Circuit Restored to Normal Operation
								Switching Error	Corrections Made and Circuit Restored to Normal Operation
								Unknown	Circuit Was Patrolled and Restored to Normal Operation
								Overloaded Transformer	Transformer Was Replaced
3	127W41	2.43	BURRILLVILLE	1672	11	87.81	146819	Primary Conductor Failure-Weather Related	Primary Conductor Was Repaired
								Fuse Link Failure-Weather Related	Line Fuse Replaced
								Fuse Link Failure-Weather Related	Transformer Fuse Replaced
								Squirrel	Transformer Fuse Replaced
								Fuse Cutout Failure	Fuse Cutout Was Replaced
								Scheduled Transformer Replacement	Transformer Was Replaced
								Primary Conductor Insulator Failure	Damaged Equipment Was Replaced and Circuit Was Restored to Normal Operation
								Vehicle Pole Accident	Damaged Equipment Was Replaced and Circuit Was Restored to Normal Operation
								Fuse Link Failure-Weather Related	Line Fuses Replaced
								Tree Limb Contacted Primaries	Tree Limb Was Removed and Circuit Was Restored to Normal Operation
								Fuse Link Failure-Weather Related	Line Fuse Replaced
4	112W42	2.38	LINCOLN CUMBERLAND	2775	7	115.69	321034	Fuse Link Failure	Transformer Fuse Replaced
								Substation Mobile Transformer Internal High Temperature	Switching Performed to Reduce Loading
								Vehicle Pole Accident	Damaged Equipment Was Replaced and Circuit Was Restored to Normal Operation
								Transformer Failure	Transformer Was Replaced
								Possible Overload	Reset CSP Transformer Breaker
								Unknown	Circuit Was Patrolled and Restored to Normal Operation
								Tree Limb Contacted Primaries	Damaged Equipment and Line Fuse Replaced
5	102W51	2.07	CENTRAL FALLS LINCOLN CUMBERLAND	3450	6	149.34	515225	Switching Error	Corrections Made and Circuit Restored to Normal Operation
								Fuse Cutout Door Failure	Fuse Cutout Door Was Replaced
								Animal	Damaged Equipment Was Removed and Circuit Was Restored to Normal Operation
								Tree Limb Contacted Primaries	Line Fuse Replaced
								Fuse Link Failure-Weather Related	Transformer Fuse Replaced
								Weather Related-Lightning/Rain	Circuit Was Restored to Normal Operation
6	63F4	1.79	WEST GREENWICH COVENTRY	1293	3	223.12	288490	Squirrel	Animal Guard Installed and Transformer Fuse Replaced
								Tree Limb Contacted Primaries	Damaged Equipment and Line Fuse Replaced
								Squirrel	Damaged Equipment Was Repaired and Circuit Was Restored to Normal Operation

**The Narragansett Electric Company**

Feeder Rankings  
2nd Quarter  
April 2005 - June 2005

Rank	Feeder	Freq.	Cities/Towns Served	No. of Customers	No of Events	Average Duration	Total Customer Mins.	Causes	Corrective Actions
7	112W44	1.63	CUMBERLAND	2265	8	164.36	372283	Tree Limb Contacted Primary	Line Fuse Replaced
								Fuse Cutout Failure	Fuse Cutouts Were Replaced
								Fuse Link Failure	Transformer Fuse Replaced
								Fuse Cutout Failure	Fuse Cutout Was Replaced
								Substation Mobile Transformer Internal High Temperature	Switching Performed to Reduce Loading
								Ongoing Construction	Scheduled Interruption
								Tree Limb Contacted Primaries	Line Fuse Replaced
								Possible Overload	Line Fuse Replaced
8	112W41	1.56	LINCOLN WOONSOCKET CUMBERLAND NORTH SMITHFIELD	3507	11	66.01	231504	Tree Limb Contacted Primary	Line Fuse Replaced
								Fuse Link Failure-Weather Related	Line Fuses Replaced
								Squirrel	Line Fuse Replaced
								Substation Mobile Transformer Internal High Temperature	Switching Performed to Reduce Loading
								Loadbreak Switch Failure	Damaged Equipment Was Isolated and Circuit Was Restored to Normal Operation
								Transformer Failure	Transformer Was Replaced
								Tree Limb Contacted Primary	Line Fuse Replaced
								Possible Overload	Line Fuse Replaced
								Fuse Cutout Failure	Fuse Cutout Was Replaced
								Transformer Failure-Overload	Transformer Was Replaced
								Transformer Failure-Overload	Transformer Was Replaced
9	33F3	1.53	LITTLE COMPTON TIVERTON	2667	6	80.24	213997	Tree Limb Contacted Primary	Fuse Cutout Was Replaced
								Squirrel	Animal Guard Installed and Transformer Fuse Replaced
								Primary Conductor Insulator Failure	Damaged Equipment Was Replaced and Circuit Was Restored to Normal Operation
								Vines	Transformer Fuse Replaced
								Vehicle Pole Accident	Damaged Equipment Was Replaced and Circuit Was Restored to Normal Operation
								Tree Limb Contacted Primary	Transformer Fuse Replaced
10	108W53	1.42	WOONSOCKET NORTH SMITHFIELD	3008	6	106.57	320552	Tree Contacted Primaries	Line Fuses Replaced
								Fuse Link Failure	Line Fuse Replaced
								Fuse Cutout Failures	Fuse Cutouts Were Replaced
								Underground Cable Failure	Damaged Equipment Was Replaced and Circuit Was Restored to Normal Operation
								Tree Contacted Primaries	Line Fuses Replaced
								Fuse Cutout Failure	Fuse Cutout Was Replaced
11	18F3	1.40	JOHNSTON CRANSTON	2900	8	15.46	44845	Relay Testing	Circuit Was Restored to Normal Operation
								Scheduled Transformer Replacement	Transformer Was Replaced
								Vehicle Pole Accident	Damaged Equipment Was Replaced and Circuit Was Restored to Normal Operation
								Fuse Cutout Failure	Fuse Cutout Was Replaced
								Fuse Cutout Failure	Damaged Equipment Was Replaced and Circuit Was Restored to Normal Operation
								Animal	Transformer Fuse Replaced
								Fuse Cutout Failure	Fuse Cutout Was Replaced
								Fuse Link Failure	Transformer Fuse Replaced

# The Narragansett Electric Company

Feeder Rankings  
2nd Quarter  
April 2005 - June 2005

Rank	Feeder	Freq.	Cities/Towns Served	No. of Customers	No of Events	Average Duration	Total Customer Mins.	Causes	Corrective Actions
12	46F4	1.30	NORTH KINGSTOWN	2741	5	136.55	374286	Tree Limb Contacted Primary	Line Fuse Replaced
								Fuse Cutout Failure	Fuse Cutout Was Replaced
								Pole Fire	Fuse Cutout Was Opened
								Ongoing Construction	Fuse Cutout Was Opened
								Vehicle Pole Accident	Damaged Equipment Was Replaced and Circuit Was Restored to Normal Operation
13	59F2	1.14	SOUTH KINGSTOWN	2336	8	43.56	101753	Fuse Cutout Failure	Fuse Cutout Was Replaced
								Transformer Failure	Transformer Was Replaced
								Squirrel	Transformer Fuse Replaced
								Ongoing Construction-Worker Error	Circuit Was Restored to Normal Operation
								Fuse Link Failure-Weather Related-Lightning	Line Fuse Replaced
								Tree Limb Contacted Primary	Line Fuse Replaced
								Tree Limb Contacted Primary	Transformer Fuse Replaced
								Animal	Line Fuse Replaced
14	34F1	1.11	GLOCESTER COVENTRY FOSTER SCITUATE	3199	18	97.53	312014	Tree Limb Contacted Primary	Transformer Fuse Replaced
								Fuse Link Failure-Weather Related	Line Fuse Replaced
								Fuse Link Failure-Weather Related	Transformer Fuse Replaced
								Fuse Link Failure-Weather Related	Line Fuse Replaced
								Fuse Link Failure	Transformer Fuse Replaced
								Fuse Link Failure	Transformer Fuse Replaced
								Fuse Cutout Failures	Fuse Cutouts Were Replaced
								Tree Limb Contacted Primary	Fuse Cutout Was Replaced
								Maintenance	Fuse Cutout Was Opened
								Vehicle Pole Accident	Line Fuse Replaced
								Fuse Link Failure-Weather Related-Rain/Wind	Transformer Fuse Replaced
								Fuse Cutout Failure	Fuse Cutout Was Replaced
								Squirrel	Line Fuse Replaced
								Fuse Cutout Failure	Damaged Equipment Was Replaced and Circuit Was Restored to Normal Operation
								Fuse Cutout Door Failure	Fuse Cutout Was Opened
								Fuse Link Failure-Weather Related-Lightning	Line Fuse Replaced
								Tree Limb Contacted Primary	Line Fuse Replaced
								Tree Limb Contacted Primary	Line Fuse Replaced
15	126W42	1.10	LINCOLN NORTH SMITHFIELD SMITHFIELD	505	3	31.32	15816	Underground Cable Splice Failure	Equipment Was Isolated and Circuit Restored to Normal Operation
								Fuse Link Failure	Transformer Fuse Replaced
								Tree Limb Contacted Primary	Transformer Fuse Replaced
16	50F2	1.09	NORTH PROVIDENCE	1729	6	81.84	141501	Lightning Arrester Failure	Equipment Was Isolated, Transformer Fuse Replaced
								Maintenance	Fuse Cutout Was Opened
								Maintenance	Fuse Cutout Was Opened
								Loss of 23Kv Supply Circuit	Performed Switching to Restore Supply to Substation
								Fuse Cutout Failure	Fuse Cutout Was Replaced
								Fuse Cutout Failure	Fuse Cutout Was Replaced

# **The Narragansett Electric Company**

Feeder Rankings  
2nd Quarter  
April 2005 - June 2005

Rank	Feeder	Freq.	Cities/Towns Served	No. of Customers	No of Events	Average Duration	Total Customer Mins.	Causes	Corrective Actions
17	3F2	1.09	WARWICK	3661	7	42.34	155000	Ongoing Construction-O/S Contractor Crew	Line Fuse Replaced
								Primary Conductor Failure	Damaged Equipment Was Replaced and Circuit Was Restored to Normal Operation
								Fuse Cutout Replacement Program	Fuse Cutout Was Replaced
								Fuse Cutout Replacement Program	Fuse Cutout Was Replaced
								Vehicle Pole Accident	Line Fuse Replaced
								Fuse Cutout Replacement Program	Fuse Cutout Was Replaced
								Fuse Link Failure	Transformer Fuse Replaced
18	59F1	1.09	SOUTH KINGSTOWN NARRAGANSETT EXETER NORTH KINGSTOWN	2066	13	45.02	93014	Squirrel	Animal Guard Installed and Transformer Fuse Replaced
								Squirrel	Transformer Fuse Replaced
								Ongoing Construction-Worker Error	Circuit Was Restored to Normal Operation
								Fuse Link Failure-Weather Related-Lightning	Line Fuse Replaced
								Fuse Link Failure-Weather Related-Lightning	Line Fuse Replaced
								Fuse Link Failure-Weather Related-Lightning	Line Fuse Replaced
								Fuse Link Failure-Weather Related-Lightning	Line Fuse Replaced
								Vines	Line Fuse Replaced
								Fuse Link Failure	Transformer Fuse Replaced
								Fuse Link Failure	Transformer Fuse Replaced
								Fuse Link Failure	Transformer Fuse Replaced
								Squirrel	Line Fuse Replaced
								Tree Limb Contacted Primary	Line Fuse Replaced

The Total No. Of Customers Served Will Vary Throughout The Year Due to New Activations, Terminations Of Service Or Rearrangements of the Company's Distribution System

**FREQUENCY**=(Total No. Of Cust's Interrupted) / (Total No. Of Cust's Served By Feeder)

**TOTAL CUSTOMER MINUTES (CMI)**=Sum Of (((Number Of Customers Interrupted) X (Duration Of Interruption)) For Each Event]